Natural Resource Damage Assessment and Restoration Program

C & R Battery National Priorities List Site, Chesterfield County, Virginia

Site History

The C & R Battery Company, Inc., a former battery sawing and shredding facility (Site) operated from the early 1970s until 1985, when it closed due to several Occupational Safety and Health Administration violations related to elevated levels of lead on Site. High levels of lead were found throughout the Site and in drainage ditches leading to the James River. In 1986, the U.S. Environmental Protection Agency (EPA) added the Site to the National Priorities List (Superfund). Other hazardous materials released by operations at the Site included sulfuric acid and other heavy metals, such as cadmium, arsenic, antimony and nickel. Several miles of surface waters and sediments within the James River were negatively impacted by the releases.

Restoring the Resources

Parties contributing batteries to the Site for disposal included approximately 86 different business entities (*de minimis* parties). By 1999, all *de minimis* parties had settled with EPA and the Trustees. Settlement funds under the control of the U.S. Fish and Wildlife Service, in the amount of approximately \$64,000, will be used for restoration activities within the James River watershed.



Location of C & R Battery Site



Bald eagle, *Haliaeetus* leucocephalus

The James River Watershed and Natural Resources

The James River is Virginia's largest river, flowing across the entire state from its headwaters in Bath and Highland Counties, to its mouth at the Chesapeake Bay. In the vicinity of the Site, the James River supports two species of mussel, eight species of crayfish, and 56 species of fish, including the Atlantic sturgeon, a federal and state species of concern. Migratory birds, including bald eagles and other raptors, ducks, geese, and songbirds, have ranges that include the Site and use resources provided by the river.



Atlantic sturgeon, Acipenser oxyrhynchus



The James River at Presquile National Wildlife Refuge

Proposed activities:

Specific types of riparian habitat protection and enhancement measures will include:

- Maintain and upgrade bank stabilization structure(s) along the southern shore of the PNWR designed to reduce bank sloughing and erosion;
- Increase riparian tree planting and buffer width along the southern and western borders of PNWR to stabilize the banks while also providing a value to wildlife;
- Provide future nest sites for nesting bald eagles as well as providing habitat for other species by increasing an existing riparian buffer along the southern and western shores of PNWR;
- Increase control of invasive plant species on PNWR including Johnson grass (*Sorghum halepense*) and Canada thistle (*Cirsium arvense*).

Habitat Restoration at Presquile National Wildlife Refuge (PNWR)

Presquile National Wildlife Refuge offers opportunity for restoration projects within the James River watershed and ensures long-term success. Goals of planned restoration projects include:

- increase survival probabilities for migratory fish and birds in the restoration area(s);
- improve prey base and nesting habitat for bald eagles;
- improve water quality by reducing riverbank erosion;
- improve the quality of bed and bank sediments;
- improve and protect riparian buffer habitats;
- restore the natural riparian structure and function.

Other restoration activities preserving the value of the James River Watershed will include:

■ Community environmental educational outreach at PNWR focusing on providing the public with information on history and status of various threats (e.g., spills); biological requirements of the species inhabiting the James River; restoration and conservation management strategies; and roles of the natural resource agencies and private citizens groups

Status:

The Restoration Plan has been completed and reviewed by the public. Restoration work is scheduled to begin in 2009.

Current and Future Partnerships:

The James River Association, Alliance for the Chesapeake Bay, National Audubon Society, and the Richmond Audubon Society.



White-tailed deer at Presquile National Wildlife Refuge

For more information, contact: U.S. Fish and Wildlife Service Virginia Field Office 6669 Short Lane Gloucester, VA 23061 804/693 6694

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